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5

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Glu Lys Lys Pro Thr Val Ser Thr Phe Ala Met Phe Arg Tyr Ser Asn
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Trp Leu Asp Arg Leu Tyr Met Leu Val Gly Thr Met Ala Ala Ile Ile
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His Gly Ala Ala Leu Pro Leu Met Met Leu Val Phe Gly Asn Met Thr
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B
Page 1-54

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340

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 Val Ser Ser Phe Ala Pro Asp Tyr Ala Lys Ala Lys Val Ser Ala Ala
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 His Val Ile Met Ile Ile Glu Lys Ser Pro Leu Ile Asp Ser Tyr Ser
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 Pro His Gly Leu Lys Pro Asn Thr Leu Glu Gly Asn Val Thr Phe Asn
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15	ttc tgg aaa atg ggc aaa aaa agt aaa aaa gag aag aaa gaa aag aaa Phe Trp Lys Met Gly Lys Lys Ser Lys Lys Glu Lys Lys Glu Lys Lys 15 20 25 30	159
20	cca act gtc agc acg ttt gca atg ttt cgc tat tca aat tgg ctt gat Pro Thr Val Ser Thr Phe Ala Met Phe Arg Tyr Ser Asn Trp Leu Asp 35 40 45	207
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	aac ctg aag gtt cag agt ggg cag aca gtg gcg ctg gtt ggg aac agt Asn Leu Lys Val Gln Ser Gly Gln Thr Val Ala Leu Val Gly Asn Ser 415 420 425 430			1359
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	Glu Arg Gly Ala Arg Leu Ser Gly Gly Gln Lys Gln Arg Ile Ala Ile			
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	Ala Arg Ala Leu Val Arg Asn Pro Lys Ile Leu Leu Leu Asp Glu Ala			
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	acg tca gct ctg gac act gaa agt gaa gca gtg gtt cag gtg gcc ctg			1791
	Thr Ser Ala Leu Asp Thr Glu Ser Glu Ala Val Val Gln Val Ala Leu			
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	Ser Thr Val Arg Asn Ala Asp Val Ile Ala Gly Phe Asp Asp Gly Val			
	595	600	605	
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	Ile Val Glu Lys Gly Asn His Asp Glu Leu Met Lys Glu Lys Gly Ile			
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	Tyr Phe Lys Leu Val Thr Met Gln Thr Arg Gly Asn Glu Ile Glu Leu			
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	Glu Asn Ala Thr Gly Glu Ser Lys Ser Glu Ser Asp Ala Leu Glu Met			
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	Arg Ser Ile His Ala Pro Gln Gly Gln Asp Arg Lys Leu Gly Thr Lys			
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	720	725	730	
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	755	760	765	
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	770	775	780	
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	785	790	795	
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	800	805	810	
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	815	820	825	830
40	835	840	845	
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	850	855	860	
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	895	900	905	910
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Arg Val Gly Asp Lys Gly Thr Gln Leu Ser Gly Gln Lys Gln Arg				
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Ile Ala Ile Ala Arg Ala Leu Val Arg Gln Pro His Ile Leu Leu				
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His Arg Leu Ser Thr Ile Gln Asn Ala Asp Leu Ile Val Val Phe Gln				
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Asn Gly Lys Val Lys Glu His Gly Thr His Gln Gln Leu Leu Ala Gln				
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Asp Lys Ala Arg Lys Gly Arg Thr Thr Ile Val Ile Ala His Arg Leu				
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Ser Thr Val Arg Asn Ala Asp Val Ile Ala Gly Phe Asp Asp Gly Val				
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Ile Val Glu Lys Gly Asn His Asp Glu Leu Met Lys Glu Lys Gly Ile				
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Glu Asn Ala Thr Gly Glu Ser Lys Ser Glu Ser Asp Ala Leu Glu Met				
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	Leu Ala Ile Val Pro Ile Ile Ala Ile Ala Gly Val Val Glu Met Lys		
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	Gly Lys Ile Ala Thr Glu Ala Ile Glu Asn Phe Arg Thr Val Val Ser		
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 His Lys Ile Arg Lys Gln Phe Phe His Ala Ile Met Arg Gln Glu Ile
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 Lys Ser Thr Thr Val Gln Leu Met Gln Arg Leu Tyr Asp Pro Thr Glu
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 Phe Leu Arg Glu Ile Ile Gly Val Val Ser Gln Glu Pro Val Leu Phe
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Ala His Arg Leu Ser Thr Ile Gln Asn Ala Asp Leu Ile Val Val Phe			
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Gln Asn Gly Lys Val Lys Glu His Gly Thr His Gln Gln Leu Leu Ala			
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	Lys Asn Phe Trp Lys Met Gly Lys Ser Lys Lys Lys Glu Lys Lys	
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	Glu Lys Lys Pro Thr Val Ser Thr Phe Ala Met Phe Arg Tyr Ser Asn	
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	Trp Leu Asp Arg Leu Tyr Met Leu Val Gly Thr Met Ala Ala Ile Ile	
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	Ile Ile Asn Glu Ser Ile Thr Asn Asn Thr Gln His Phe Ile Asn His	
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	Leu Glu Glu Glu Met Thr Thr Tyr Ala Tyr Tyr Ser Gly Ile Gly	
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	Ala Gly Val Leu Val Ala Ala Tyr Ile Gln Val Ser Phe Trp Cys Leu	
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	Ala Ala Gly Arg Gln Ile Leu Lys Ile Arg Lys Gln Phe Phe His Ala	
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	Ile Met Arg Gln Glu Ile Gly Trp Phe Asp Val His Asp Val Gly Glu	
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	Leu Asn Thr Arg Leu Thr Asp Asp Val Ser Lys Ile Asn Glu Gly Ile	
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	Gly Asp Lys Ile Gly Met Phe Phe Gln Ser Ile Ala Thr Phe Phe Thr	
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	Gly Phe Ile Val Gly Phe Thr Arg Gly Trp Lys Leu Thr Leu Val Ile	
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Lys Gly Ile Tyr Phe Lys Leu Val Thr Met Gln Thr Arg Gly Asn Glu			
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Ile Glu Leu Glu Asn Ala Thr Gly Glu Ser Lys Ser Glu Ser Asp Ala			
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 Ala His Arg Leu Ser Thr Ile Gln Asn Ala Asp Leu Ile Val Val Phe
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 Lys Asn Phe Trp Lys Met Gly Lys Ser Lys Lys Glu Lys Lys
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 Glu Lys Lys Pro Thr Val Ser Thr Phe Ala Met Phe Arg Tyr Ser Asn
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 Trp Leu Asp Arg Leu Tyr Met Leu Val Gly Thr Met Ala Ala Ile Ile
 45 50 55 60

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 His Gly Ala Ala Leu Pro Leu Met Met Leu Val Phe Gly Asn Met Thr
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 Asp Ser Phe Ala Asn Ala Gly Ile Ser Arg Asn Lys Thr Phe Pro Val
 80 85 90

60 ata att aat gaa agt att acg aac aat aca caa cat ttc atc aac cat 340

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	95 100 105		
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30	ggc gac aaa att gga atg ttc ttt caa tca ata gca aca ttt ttc acc Gly Asp Lys Ile Gly Met Phe Phe Gln Ser Ile Ala Thr Phe Phe Thr 190 195 200		628
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	365	370	375	380
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	465	470	475	
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	480	485	490	
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60	ctg gtt gga gag aga ggg gcc cag ctg agt ggt gga cag aaa cag aga Leu Val Gly Glu Arg Gly Ala Gln Leu Ser Gly Gly Gln Lys Gln Arg		1636	
	525	530	535	540
65	atc gcc att gct cgg gcc ctg gtt cgc aac ccc aag att ctt ctg ctg Ile Ala Ile Ala Arg Ala Leu Val Arg Asn Pro Lys Ile Leu Leu Leu		1684	
	545	550	555	
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	560	565	570	
75	gtg gcc ctg gat aag gcc aga aaa ggc cgg act acc att gtg ata gct		1780	

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	575 580 585		
5	cat cgt ttg tct aca gtt cgt aat gcc gat gtc att gct ggt ttt gat His Arg Leu Ser Thr Val Arg Asn Ala Asp Val Ile Ala Gly Phe Asp 590 595 600		1828
10	gat gga gtc att gtg gag aaa gga aat cat gat gaa ctc atg aaa gag Asp Gly Val Ile Val Glu Lys Gly Asn His Asp Glu Leu Met Lys Glu 605 610 615 620		1876
15	aag ggc att tac ttc aaa ctt gtc aca atg cag aca aga gga aat gaa Lys Gly Ile Tyr Phe Lys Leu Val Thr Met Gln Thr Arg Gly Asn Glu 625 630 635		1924
20	att gag tta gaa aat gcc act ggt gaa tcc aaa agt gaa agt gat gcc Ile Glu Leu Glu Asn Ala Thr Gly Glu Ser Lys Ser Glu Ser Asp Ala 640 645 650		1972
25	ttg gaa atg tct cca aaa gat tca ggg tcc agt tta ata aaa aga aga Leu Glu Met Ser Pro Lys Asp Ser Gly Ser Ser Leu Ile Lys Arg Arg 655 660 665		2020
30	tca act cgc agg agt ata cat gca cca caa ggc caa gac aga aag ctt Ser Thr Arg Arg Ser Ile His Ala Pro Gln Gly Gln Asp Arg Lys Leu 670 675 680		2068
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20	880	885	890	gaa atg aaa atg ttg tct gga caa gca ctg aaa gat aag aaa gag cta Glu Met Lys Met Leu Ser Gly Gln Ala Leu Lys Asp Lys Lys Glu Leu	2692									
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65 cag ctg ctg gcc cag aaa ggc atc tat ttt tcc atg gtc agt gtc cag 3844
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 Asn Ala Gly Ile Ser Arg Asn Lys Thr Phe Pro Val Ile Ile Asn Glu
 25 85 90 95
 Ser Ile Thr Asn Asn Thr Gln His Phe Ile Asn His Leu Glu Glu Glu
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 130 135 140
 Gln Ile Leu Lys Ile Arg Lys Gln Phe Phe His Ala Ile Met Arg Gln
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 Glu Ile Gly Trp Phe Asp Val His Asp Val Gly Glu Leu Asn Thr Arg
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 Ser Ile Glu Ala Phe Ala Asn Ala Arg Gly Ala Ala Tyr Glu Ile Phe
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 60 Lys Ile Ile Asp Asn Lys Pro Ser Ile Asp Ser Tyr Ser Lys Ser Gly

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	Phe Ser Tyr Pro Ser Arg Lys Glu Val Lys Ile Leu Lys Gly Leu Asn		
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	Asp Phe Ile Met Lys Leu Pro Asn Lys Phe Asp Thr Leu Val Gly Glu		
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	Arg Ala Leu Val Arg Asn Pro Lys Ile Leu Leu Asp Glu Ala Thr		
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	Ile Ile Asn Gly Gly Leu Gln Pro Ala Phe Ser Ile Ile Phe Ser Arg		
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	Ile Ile Gly Ile Phe Thr Arg Asp Glu Asp Pro Glu Thr Lys Arg Gln		
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	Asn Ser Asn Met Phe Ser Val Leu Phe Leu Val Leu Gly Ile Ile Ser		
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785	790	795	800
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	885	890	895	
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	930	935	940	
	Ser Ile Thr Gln Ala Met Met Tyr Phe Ser Tyr Ala Gly Cys Phe Arg			
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	Phe Gly Ala Tyr Leu Val Ala Asn Glu Phe Met Asn Phe Gln Asp Val			
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	1025	1030	1035	1040
	Glu Val Val Phe Asn Tyr Pro Thr Arg Pro Asp Ile Pro Val Leu Gln			
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	Gly Leu Ser Leu Glu Val Lys Lys Gly Gln Thr Leu Ala Leu Val Gly			
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	Ser Ser Gly Cys Gly Lys Ser Thr Val Val Gln Leu Leu Glu Arg Phe			
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	His Leu Asn Val Gln Trp Leu Arg Ala His Leu Gly Ile Val Ser Gln			
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	Glu Pro Ile Leu Phe Asp Cys Ser Ile Ala Glu Asn Ile Ala Tyr Gly			
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	Asp Asn Ser Arg Val Val Ser His Glu Glu Ile Val Gln Ala Ala Lys			
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	Glu Ala Asn Ile His His Phe Ile Glu Thr Leu Pro Glu Lys Tyr Asn			
	1155	1160	1165	
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	Arg Ile Ala Ile Ala Arg Ala Leu Val Arg Gln Pro His Ile Leu Leu			
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	Leu Asp Glu Ala Thr Ser Ala Leu Asp Thr Glu Ser Glu Lys Val Val			
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	Gln Glu Ala Leu Asp Lys Ala Arg Glu Gly Arg Thr Cys Ile Val Ile			
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	Ala His Arg Leu Ser Thr Ile Gln Asn Ala Asp Leu Ile Val Val Phe			
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